

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

H-4 5-27-03 P. 7.

Attorney Docket No. 040301/0575

Shigeo MATSUZAWA et al.

Title:

ROUTER DEVICE AND CUT-THROUGH PATH CONTROL

METHOD FOR REALIZING LOAD BALANCING AT

INTERMEDIATE ROUTERS

Serial No.:

09/429,632

Filed:

October 29, 1999

Examiner:

Ho, Chuong T.

Art Unit:

2664

RECEIVED.

MAY 2 1 2003

Technology Center 2600

TRANSMITTAL OF FORMAL DRAWINGS

Commissioner for Patents PO Box 1450 Alexandria, Virginia 22313-1450

ATTENTION: DRAWING REVIEW BRANCH

Sir:

Transmitted herewith are the formal drawings (9 sheets, Figures 1-11) for the above-identified application. The Official Draftsperson is respectfully requested to approve these drawings for entry into the application.

Respectfully submitted,

Date

Phillip J. Articola

Registration No. 38,819

FOLEY & LARDNER
Washington Harbour
3000 K Street, N.W., Suite 500
Washington, D.C. 20007-5143
Telephone: (202) 672-5300

Facsimile:

(202) 672-5399

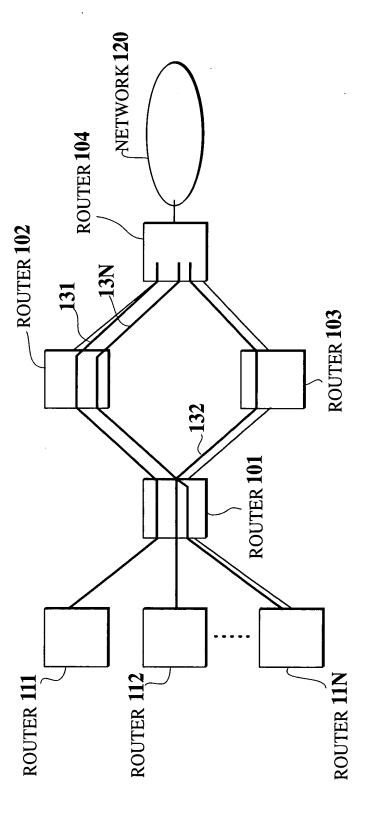
May, 2003



FIG.1

Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZING LOAD BALANCING AT INTERMEDIATE ROUTERS

Inventor(s): Shigeo MATSUZAWA et al. Appl. No.: 09/429,632

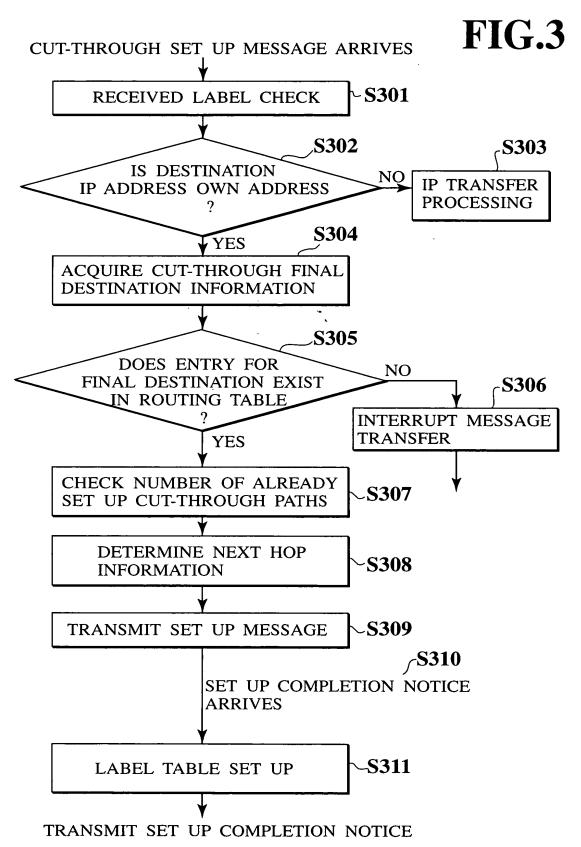


Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZI LOAD BALANCING AT INTERMEDIATE ROUTERS Inventor(s): Shigeo MATSUZAWA et al. Appl. No.: 09/429,632 *2/9* $\sqrt{222}$ -221 NETWORK INTERFACE INTERFACE NETWORK SWITCH UNIT 204 ROUTING TABLE 203 201 202 CONTROL UNIT CUT-THROUGH IP PROCESSING UNIT LABEL PROCESSING UNIT LABEL TABLE -232 NETWORK INTERFACE INTERFACE NETWORK FIG.2 PHYSICAL LAYER PROCESSING UNIT 231



Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZING LOAD BALANCING AT INTERMEDIATE ROUTERS

Inventor(s): Shigeo MATSUZAWA et al. Appl. No.: 09/429,632

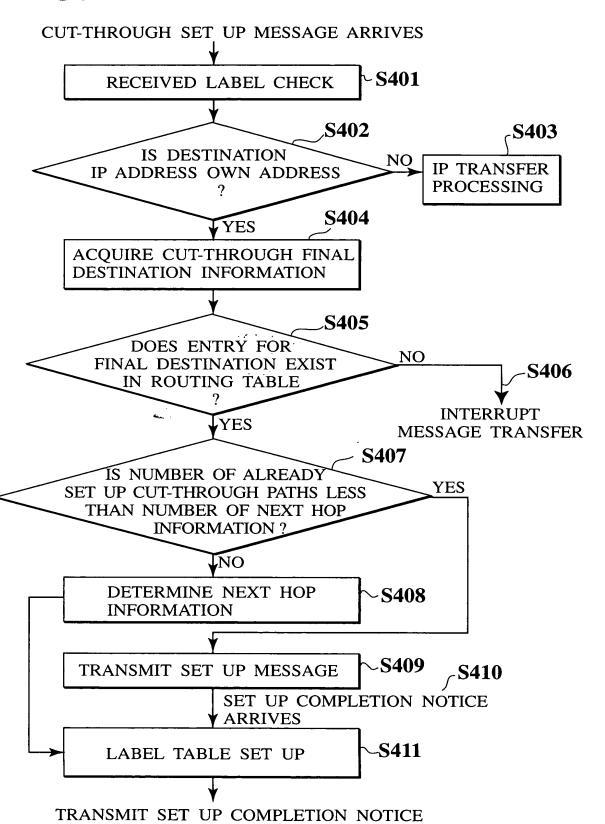


PE JC130
NAT 9 TENT 8 TRADES

Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZING LOAD BALANCING AT INTERMEDIATE ROUTERS

Inventor(s): Shigeo MATSUZAWA et al. Appl. No.: 09/429,632

FIG.4



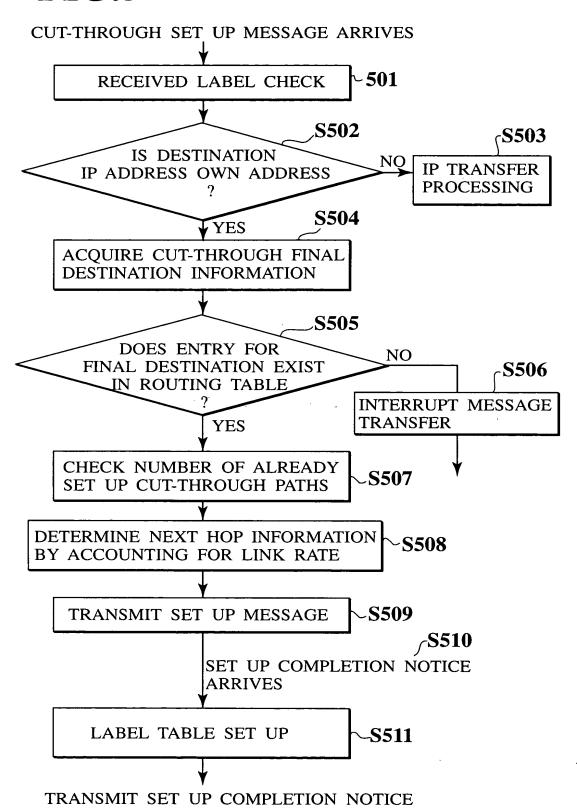


Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZIN LOAD BALANCING AT INTERMEDIATE ROUTERS

Inventor(s): Shigeo MATSUZAWA et al. Appl. No.: 09/429,632

5/9

FIG.5





NUMBER OF CUT-THROUGH

PATHS

NEXT HOP INFORMATION

NEXT HOP INFORMATION

INFORMATION

NUMBER NEXT HOP

DESTINATION

ADDRESS

< **602** √

Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZ LOAD BALANCING AT INTERMEDIATE ROUTERS

Inventor(s): Shigeo MATSUZAWA et al. Appl. No.: 09/429,632

6/9

FIG.7

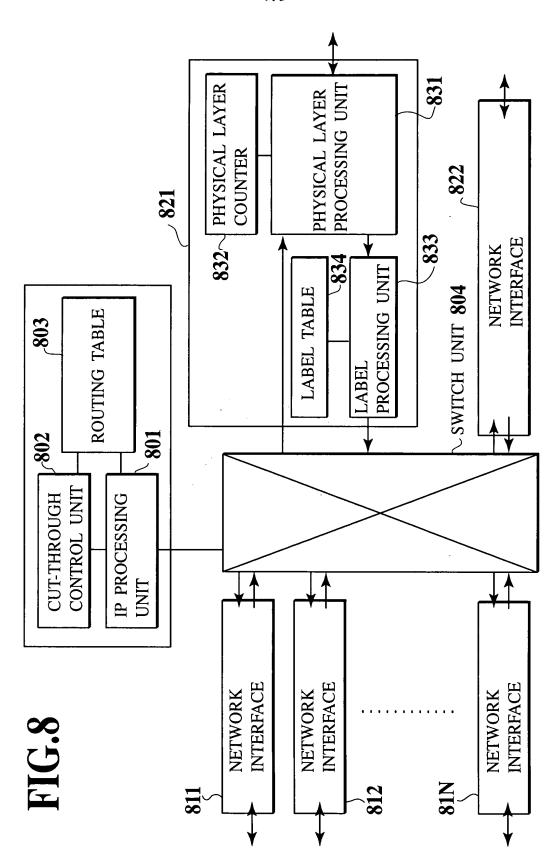
;)	703	OUTPUT LABEL VALUE	•••••
	<702	OUTPUT INTERFACE	••••••
	$_{ m <}$ 701	RECEIVED LABEL	•••••



Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZIN LOAD BALANCING AT INTERMEDIATE ROUTERS

Inventor(s): Shigeo MATSUZAWA et al.

Appl. No.: 09/429,632



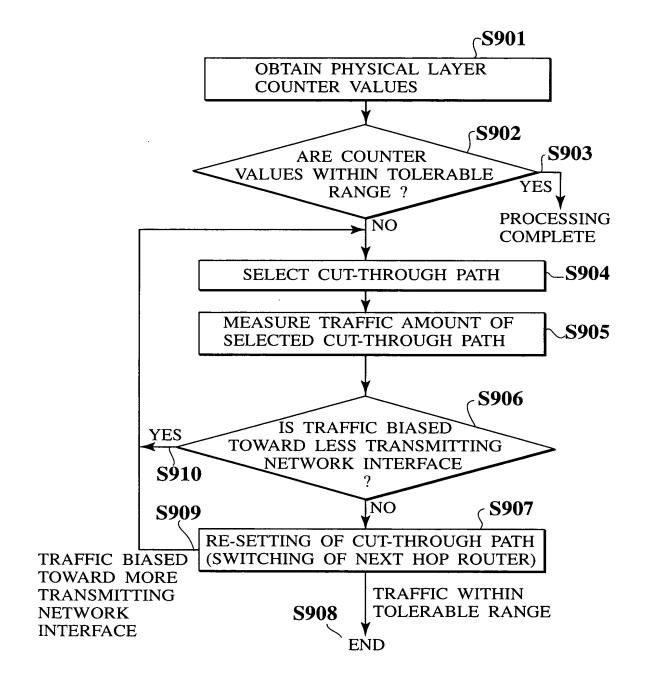


Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZIN LOAD BALANCING AT INTERMEDIATE ROUTERS

Inventor(s): Shigeo MATSUZAWA et al. Appl. No.: 09/429,632

8/9

FIG.9



Title: ROUTER DEVICE AND CUT-THROUGH PATH CONTROL METHOD FOR REALIZING LOAD BALANCING AT INTERMEDIATE **ROUTERS** Inventor(s): Shigeo MATSUZAWA et al.

Appl. No.: 09/429,632

9/9

FIG.10

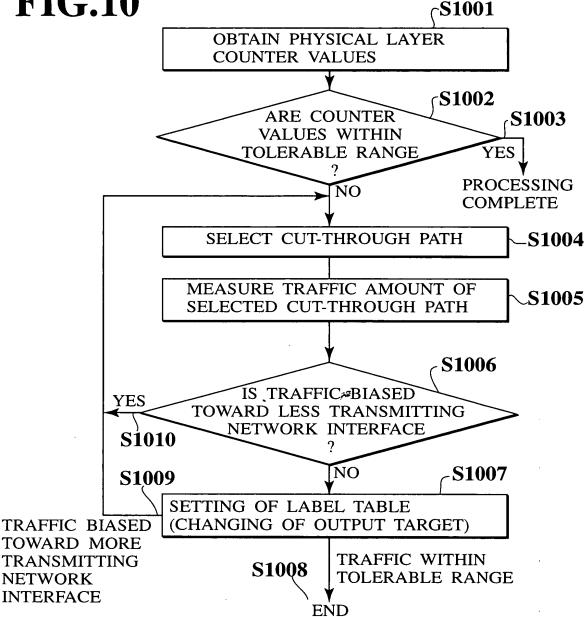


FIG.11

,1101 ,1103 1102ء 1104ء **RECEIVED OUTPUT OUTPUT** NUMBER OF **INTERFACE** LABEL VALUE **LABEL** RECEIVED FRAMES